Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2020-01-30-84** **Date: 14/12/2019**
	:	Improvements CC Road and Drain and Slabs at Kattigenahalli in Ward No.05 Byatarayanapura Sub Division
	:	Executive Engineer, KRIDL, Bangalore.
Reference	:	EE(Project)/Ynk Zone/WO/65/2019-20
	:	09-12-19
	:	Cement Concrete Pavement
/Size	:	150X150X150 mm
/Age	:	M30 / 7 Days Compressive Strength
BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
	:	14/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	07/12/2019	14/12/2019	151.57 X 149.61 X 150.81	22676	**8.855**	588.5	26.0	25.6
Cement Concrete Pavement	M30	07/12/2019	14/12/2019	150.58 X 149.07 X 149.76	22447	**8.149**	595.4	26.5	
Cement Concrete Pavement	M30	07/12/2019	14/12/2019	151.16 X 149.47 X 151.69	22593	**8.895**	547.3	24.2	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/01/2020

ID	:	CP-2020-01-30-84
Name	:	Improvements CC Road and Drain and Slabs at Kattigenahalli in Ward No.05 Byatarayanapura Sub Division
	:	Executive Engineer, KRIDL, Bangalore.
mer's Reference	:	EE(Project)/Ynk Zone/WO/65/2019-20
f Receipt	:	09-12-19
mer ID	:	Cement Concrete Pavement
e Type /Size	:	150X150X150 mm
e grade/Age	:	M30 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	04/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	07/12/2019	04/01/2020	150.67 X 149.86 X 149.62	22579	8.650	764.5	33.9	33.1
Cement Concrete Pavement	M30	07/12/2019	04/01/2020	150.50 X 151.06 X 151.53	22734	8.441	729.4	32.1	
Cement Concrete Pavement	M30	07/12/2019	04/01/2020	149.69 X 151.33 X 149.97	22653	8.051	752.3	33.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 14/12/2019

: CP-2020-01-30-84

: Improvements CC Road and Drain and Slabs at Kattigenahalli in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

Reference : EE(Project)/Ynk Zone/WO/65/2019-20

: 09-12-19

: Cement Concrete Pavement

/Size : 150X150X150 mm

/Age : M30 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 14/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ment Concrete Pavement	M30	07/12/2019	14/12/2019	150.56 X 150.09 X 149.21	22597	8.855	571.1	25.3	25.5
ment Concrete Pavement	M30	07/12/2019	14/12/2019	150.48 X 151.86 X 151.71	22851	8.149	605.6	26.5	
ment Concrete Pavement	M30	07/12/2019	14/12/2019	151.02 X 149.59 X 151.97	22591	8.895	561.0	24.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/01/2020

: CP-2020-01-30-84

Name : Improvements CC Road and Drain and Slabs at Kattigenahalli in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

's Reference : EE(Project)/Ynk Zone/WO/65/2019-20

Receipt : 09-12-19

ID : Cement Concrete Pavement

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 04/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	07/12/2019	04/01/2020	151.60 X 151.33 X 150.06	22941	8.650	771.5	33.6	33.2
Cement Concrete Pavement	M30	07/12/2019	04/01/2020	150.80 X 149.21 X 149.76	22500	8.441	725.9	32.3	
Cement Concrete Pavement	M30	07/12/2019	04/01/2020	149.87 X 151.83 X 149.54	22755	8.051	764.7	33.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2020-01-30-84** **Date: 14/12/2019**
ect Name	:	Improvements CC Road and Drain and Slabs at Kattigenahalli in Ward No.05 Byatarayanapura Sub Division
ncy	:	Executive Engineer, KRIDL, Bangalore.
mmer's Reference	:	EE(Project)/Ynk Zone/WO/65/2019-20
e of Receipt	:	09-12-19
mmer ID	:	Cement Concrete Pavement
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M30 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	14/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	07/12/2019	14/12/2019	149.72 X 149.96 X 151.89	22451	**8.855**	580.6	25.9	25.6
Cement Concrete Pavement	M30	07/12/2019	14/12/2019	150.97 X 150.67 X 149.48	22746	**8.149**	607.1	26.7	
Cement Concrete Pavement	M30	07/12/2019	14/12/2019	149.68 X 151.27 X 151.21	22643	**8.895**	550.6	24.3	

18/12/2019

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/01/2020

: CP-2020-01-30-84

Name : Improvements CC Road and Drain and Slabs at Kattigenahalli in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

mer's Reference : EE(Project)/Ynk Zone/WO/65/2019-20

f Receipt : 09-12-19

mer ID : Cement Concrete Pavement

e Type /Size : 150X150X150 mm

e grade/Age : M30 / 28 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 04/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	07/12/2019	04/01/2020	149.78 X 150.64 X 151.00	22563	**8.650**	748.2	33.2	32.8
Cement Concrete Pavement	M30	07/12/2019	04/01/2020	150.97 X 149.31 X 149.46	22542	**8.441**	721.8	32.0	
Cement Concrete Pavement	M30	07/12/2019	04/01/2020	149.32 X 151.65 X 149.37	22644	**8.051**	749.5	33.1	

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Date: 14/12/2019

ID	:	**CP-2020-01-30-84**
t Name	:	Improvements CC Road and Drain and Slabs at Kattigenahalli in Ward No.05 Byatarayanapura Sub Division
ncy	:	Executive Engineer, KRIDL, Bangalore.
mmer's Reference	:	EE(Project)/Ynk Zone/WO/65/2019-20
of Receipt	:	09-12-19
mmer ID	:	Cement Concrete Pavement
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M30 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	14/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	07/12/2019	14/12/2019	149.43 X 149.39 X 151.86	22323	**8.855**	571.9	25.6	25.7
Cement Concrete Pavement	M30	07/12/2019	14/12/2019	150.28 X 149.71 X 150.69	22498	**8.149**	592.8	26.3	
Cement Concrete Pavement	M30	07/12/2019	14/12/2019	151.09 X 149.98 X 151.85	22661	**8.895**	566.2	25.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2020-01-30-84** **Date: 04/01/2020**
ect Name	:	Improvements CC Road and Drain and Slabs at Kattigenahalli in Ward No.05 Byatarayanapura Sub Division
ncy	:	Executive Engineer, KRIDL, Bangalore.
mmer's Reference	:	EE(Project)/Ynk Zone/WO/65/2019-20
nf Receipt	:	09-12-19
mmer ID	:	Cement Concrete Pavement
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M30 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	04/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	07/12/2019	04/01/2020	151.00 X 151.17 X 149.15	22827	**8.650**	753.4	33.0	33.0
Cement Concrete Pavement	M30	07/12/2019	04/01/2020	149.32 X 150.54 X 151.32	22479	**8.441**	726.2	32.3	
Cement Concrete Pavement	M30	07/12/2019	04/01/2020	149.20 X 151.17 X 150.45	22553	**8.051**	763.1	33.8	

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TEST RESULTS OF GRADATION FOR WMM

	:	**CP-RW-2020-01-30-85** **Date: 21-11-19**
Name	:	Improvements CC Road and Drain and Slabs at Kattigenahalli in Ward No.05 Byatarayanapura Sub Division
	:	Executive Engineer, KRIDL, Bangalore.
ner Reference	:	EE(Project)/Ynk Zone/WO/65/2019-20
Receipt	:	19-11-19
f Mix	:	WMM (Wet Mix Macadam)
f test	:	19-11-19
Dry Weight	:	11000 Grams

Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

19/2/2020

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

	:	**CP-RW-2020-01-30-85** **Date: 21-11-19**
Name	:	Improvements CC Road and Drain and Slabs at Kattigenahalli in Ward No.05 Byatarayanapura Sub Division
	:	Executive Engineer, KRIDL, Bangalore.
er Reference	:	EE(Project)/Ynk Zone/WO/65/2019-20
Receipt	:	19-11-19
Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
test	:	19-11-19

o	Particulars of observations	Index	TEST 1	TEST 2
	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

19/2/2020

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ERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

)	:	**CP-RW-2020-01-30-85** **Date: 21-11-19**
t Name	:	Improvements CC Road and Drain and Slabs at Kattigenahalli in Ward No.05 Byatarayanapura Sub Division
y	:	Executive Engineer, KRIDL, Bangalore.
mer Reference	:	EE(Project)/Ynk Zone/WO/65/2019-20
f Receipt	:	19-11-19
f Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
f test	:	19-11-19

t:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
bined Flakiness and Elongation Index for WMM	25.3%	

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